

FY-2006 and FY 2007 PROPOSED SCOPE OF WORK for:
Tusher Wash Fish Screen Facility

Project #: C-28

Lead Agency: Bureau of Reclamation
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<u>Category:</u>	<u>Expected Funding Source:</u>
<input checked="" type="checkbox"/> Ongoing project	<input type="checkbox"/> Annual or <input checked="" type="checkbox"/> O&M funds
<input type="checkbox"/> Ongoing-revised project	<input checked="" type="checkbox"/> Capital funds
<input type="checkbox"/> Requested new project	<input type="checkbox"/> Other (explain)
<input type="checkbox"/> Unsolicited proposal	

I. Title of Proposal: Tusher Wash Fish Screen Facility

II. Relationship to RIPRAP:

Green River Action Plan: Mainstem

II.B.2 Screen Tusher Wash diversion to prevent endangered fish entrainment

III. Study Background/Rationale and Hypotheses:

The Tusher Wash Diversion Dam is owned and operated by the Green River Canal Company. The dam is located on the Green River, near Green River, Utah. The dam diverts water from the Green River for irrigation and hydroelectric power generation. The dam is not an impediment to upstream movement of fish at most flow rates but entrainment of native fish has been documented. In response to this problem, the Upper Colorado River Recovery Implementation Program (Program) has identified screening the Tusher Wash Diversion Dam canal system as an important component of recovery efforts for Colorado pikeminnow and razorback sucker.

The Program has adopted 3/32" wedge wire screening material as a standard as it prevents entrainment of a wide range of fish life stages, minimizes operation and maintenance problems and represents proven state-of-the-art technology. All screening will emphasize minimization of fish mortality and operational impacts to the canal system.

IV. Study Goals, Objectives, End Product:

Goal: Screen Tusher Wash Diversion Dam canal system.

Objectives:

1. Conduct preconstruction planning and environmental compliance activities leading to selection of a preferred alternative.
2. Prepare designs, specifications, O&M contract and cost estimates leading to construction contract award.
3. Provide construction management services resulting in construction of the fish screen facility.

V. Study area: The dam is located on the Green River, near Green River, Utah.

VI. Study Methods/Approach

A range of alternatives will be formulated to provide screening facilities and address issues and concerns. The alternatives will be presented and analyzed in a Draft Environmental Assessment (DEA). The Program Director's staff and Biology and Water Acquisition Committees will be consulted to provide technical input in the process leading to selection of a preferred alternative. Following completion of the planning and permitting phase, final designs, specifications and cost estimates will be prepared and a contract awarded to construct the preferred alternative.

VII. Task Description and Schedule (Schedule dependent on resolution of ongoing legal dispute)

1. Conduct geotechnical investigations (Complete)
2. Formulate range of alternatives (Complete)
3. Prepare DEA
4. Assuming Finding of No Significant Impact (FONSI) prepare Final Environmental Assessment (FEA)
5. Negotiate easements and O&M contract
6. Prepare final designs, specifications, cost estimates and award construction contract
7. Construct fish screen
8. Operate and evaluate fish screen and modify if required
9. Long term operation and maintenance of fish screen

VIII. FY-2006 Work

Task 3 - Prepare Environmental Assessment

Deliverable	Environmental Assessment	
Budget		
	Labor - 8 work weeks	18,000
	Travel	300
	Equipment	200
	Other	500
	Total	<u>19,000</u>

Task 4 - If applicable, final EA and FONSI

Deliverables	FONSI	
Budget		
	Labor - 3 work weeks	6,800
	Travel	
	Equipment	
	Other	200
	Total	<u>7,000</u>

Task 5 - Negotiate easements and O&M contract

Deliverable	Temporary and permanent easements and O&M Agreement	
Budget		
	Labor O&M Agreement - 4 work weeks	11,000
	Labor Easement Surveying- 3 work weeks	10,000
	Appraisal	5,000
	Travel	1,000
	Equipment	
	Other	
	Total	<u>27,000</u>

Task 6 - Prepare design and specifications

Deliverable	Design and specifications, and design summary	
Budget		
	Labor - 104 work weeks	400,000
	Travel	5,500
	Equipment	7,500
	Other	
	Total	<u>413,000</u>

Task 7 - Construct Fish Passage

Deliverables	Completed fish passage	
Budget		
	Inspection Labor	75,000
	Materials testing	20,000
	Surveying	20,000
	Contract Ad	20,000
	Travel	31,000
	Equipment	5,000
	Other - Construction contract	2,163,000
	Total	2,334,000

FY-2007 Work

Task 7 - Construct Fish Screen

Deliverable	Fish Screen	
Budget		
	Labor - Inspection 39 work weeks	75,000
	Materials testing	20,000
	Surveying	15,000
	Travel	24,000
	Contract Ad	20,000
	Equipment	5,000
	Other - Construction contract	4,457,000
	Total	4,616,000

Task 8 - Monitor and modify if required

Deliverable		
Budget		
	Labor -	30,000
	Travel	
	Equipment	
	Other	300,000
	Total	330,000

IX. Budget Summary -

Task	2006	2007
Construction	\$2,800,000	\$4,946,000
Operation and Maintenance		

X. Reviewers

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XI. References